

T4 DNA Ligase Reaction Buffer



1-800-632-7799
info@neb.com
www.neb.com



B0202S 004131016101

B0202S

6.0 ml T4 DNA Ligase Reaction Buffer (10X)

Store at -20°C Lot: 0041310 Exp: 10/16

Description: New England Biolabs supplies a 10X reaction buffer with all of its enzymes. At a 1X concentration this reaction buffer assures optimal activity of the enzyme.

1X T4 DNA Ligase Reaction Buffer:

50 mM Tris-HCl

10 mM MgCl₂

10 mM DTT

1 mM ATP

pH 7.5 @ 25°C

Supplied with enzyme as a 10X concentrated stock

Quality Control Assays

16-Hour Incubation: A 50 µl reaction containing this reaction buffer at a 1X concentration and 1 µg of HaeIII digested φX174 RF I DNA incubated for 16 hours resulted in no detectable non-specific nuclease degradation.

Endonuclease Activity: Incubation of this reaction buffer at a 1X concentration with 1 µg φX174 RF I DNA for 4 hours at 37°C in 50 µl reactions resulted in less than 5% conversion to RF II.

CERTIFICATE OF ANALYSIS

T4 DNA Ligase Reaction Buffer



1-800-632-7799
info@neb.com
www.neb.com



B0202S 004131016101

B0202S

6.0 ml T4 DNA Ligase Reaction Buffer (10X)

Store at -20°C Lot: 0041310 Exp: 10/16

Description: New England Biolabs supplies a 10X reaction buffer with all of its enzymes. At a 1X concentration this reaction buffer assures optimal activity of the enzyme.

1X T4 DNA Ligase Reaction Buffer:

50 mM Tris-HCl

10 mM MgCl₂

10 mM DTT

1 mM ATP

pH 7.5 @ 25°C

Supplied with enzyme as a 10X concentrated stock

Quality Control Assays

16-Hour Incubation: A 50 µl reaction containing this reaction buffer at a 1X concentration and 1 µg of HaeIII digested φX174 RF I DNA incubated for 16 hours resulted in no detectable non-specific nuclease degradation.

Endonuclease Activity: Incubation of this reaction buffer at a 1X concentration with 1 µg φX174 RF I DNA for 4 hours at 37°C in 50 µl reactions resulted in less than 5% conversion to RF II.

CERTIFICATE OF ANALYSIS